Kreg Roenfeldt

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Objective and Background

Objective is to obtain work and education that provides forward progress in career development. Always driven to improve current skill set and open to adding a new emphasis in similar technical skills.

Currently an IT individual with great work experience, positive college education, and the benefit of a technically oriented social network of colleagues. Cares greatly for the success of the employing organization. Seeks a professionally organized company to become permanently invested in, to gain a stable and secure future.

Background includes years of professional technical experience with additional years prior in related environments. Time has been spent involved in different topics of technology. Primary focus has been in System and Network Administration. Free time during College and personal time off continues to explore some Computer Science and Electronic Engineering topics.

Server Administration	Data Research	New Deployment	Network Design	Performance Improvement	Migration and Upgrade

Education

BYU – Idaho **2005**
BS University Studies, Minor in Information Systems

BYU – Idaho **2004**
AS Computer Systems Technology

BYU – Idaho **2001**
AS Electronics Engineering Technology

Personal Experience

Networking Highlights

- Experienced with OSI Model Concepts. ICMP, IP, TCP/IP, TCP/UDP, SSL/TLS
- Experienced with IPv4 and Subnet Design, Routing Concepts, InnerVLAN Routing
- Experienced with Ethernet, VLAN 802.1q, ARP, DHCP, PPPoE
- Experienced with OpenVPN, Routed and Bridged TAP/TUN designs, CA and Key management

Server Administration Highlights

- Experienced with Apache, BIND, Postfix, Cyrus-SASL, Cyrus-IMAP,
- Experienced with FreeRadius, NAS, Authentication, Accounting, Authorization
- Experienced with chrooting daemons, Linux file system attributes, ownerships, and features of ext3/ext4
- Experienced with File Server RAID systems of Hardware, Software, and Software dependent Hardware.
- Experienced with MySQL Database Administrating, Security, Backups, Performance
- Familiar with Windows Terminal Service, Licensing Services, and planning out TSCAL and CAL

Operating System Highlights

- Experienced with IPTables, Linux Netfilter, Managing kernel network modules, compiling custom kernels
- Experienced with Cisco ACL's, IOS feature sets, Boot configurations, Hardware compatibility issues.
- Experienced with Boot Loaders, Partitioning, EFI, BIOS, MBR/GPT tables.
- Experienced with minicom / HyperTerminal serial interfacing
- Familiar with scripting basic tasks with Bash and Perl. Typically modifying existing scripts by others.
- Familiar with Regex concepts to search patterns, sort information, troubleshoot, and analyze problems.
- Familiar with Hex editing, firmware dumps, compiling modules, dealing with binary data.

Programming Highlights

- Student of Procedural C
- Student of Object Oriented C++, Java
- Student of SQL

Professional Experience

NitroSecurity – Internet Security Engineer *Idaho Falls, ID* **September 2010 -** *Current*

- Study logging and network events from 3rd party equipment owned by current and trial customers. Determine how to organize key information from data patterns, and then create parser rules for NitroSecurity products to analyze the results.
- Create Snort style parser rules using Perl Compatible Regular Expressions. Use of careful Regex to match unique patterns in Syslog events to identify occurrences, and capture key information to be injected into the databases. Examples include searching for Usernames, IP addresses, Protocols, Failures, Severity, Hostnames, and more.
- Work with PCAP Data, Samples, Documentation, and any information that could be useful to gain insight on unknown devices that need support.
- Linux workstations and Bash as primary testing. *tcpdump, grep, sed, awk, perl, regexr, vmware,* and other various tools used for working and manipulating data samples.
- Operate Virtual Machines to build testing environments. Maintain multiple releases of the NitroView products in different configurations depending on the customers needs. Other VM environments such as Windows SQL Server, Windows Workstations, and multiple Linux flavors, for creating virtual networks to simulate real scenarios.
- Occasional hardware testing of spare equipment that can not be created in a VM. Build small networks to attempt triggering Syslog events from the equipment. Collect the samples of data that otherwise can not be extracted and begin making parsers from the new information.

Direct Communications - Network Administrator *Pocatello, ID / Eagle Mountain, UT Rockland, ID / New Florence, MO* **December 2005 - July 2010**

- Administer Linux systems for tasks in Mail, Web, Radius, File Storage, Firewalls, DNS hosting / caching.
- Monitor with Syslog, Packet Capture, ICMP Pingers, and MRTG **/** RRDTool SNMP Graphers.
- Operate numerous Cisco Routers and Switch gear for each site. Maintain Upstream Provider WAN pipes. Extensive use of Ethernet VLAN and IP routing design. Other transports besides Ethernet protocol includes ATM, Frame Relay, Serial PPP, Cable HFC DOCSIS, and PPPoE.
- Familiar with Genband VoIP soft switches for internal and public VoIP networks. Have experimented and practiced with different QoS techniques using Cisco network gear to achieve quality prioritized service.
- Each region required coordinating with departments of Fiber, DSL, T1, Cable, and Wireless. Coordinate with each team to troubleshoot emergencies and maintain service.
- Maintain company wide private Intranet. Manage VPN networks between all offices, company partners, and traveling employees. Govern internal security, design performance, and support daily operation for each location.
- 24 hour standby for escalations from Customer Service. VIP clients include schools, large businesses and other partnered Internet providers.

Direct Communications Equipment Experience

Operating Systems	RedHat CentOS Mandriva Ubuntu Debian Slackware		Microsoft Windows Server 2003 Windows XP / Vista / 7		Cisco IOS Mikrotik Router OS
	Routers / Switches	**Cable Internet**	**DSL Internet**	**Wireless Internet**	**Transports**
Hardware	Cisco 7200VXR Cisco 7200 Cisco 3600 Cisco 2600 Catalyst 3750 / 2950	Cisco UBR-7246VXR Cisco UBR-7246 Arris 1500 Arris 1000 Motorola BSR 1000	Calix E5 110/111 AFC ATM DSLAM Zhone BSX8000-5 Zhone AuD8000-12	Motorola Canopy Trango Alperto WiiMax SmartBrigde Tranzeo	Calix C7 Cisco Cerent 15454

Shelbourne Apartments - Network Administrator *Rexburg, ID* **May 2004 - December 2005**

- Maintained basic Internet service and VoIP phones for students of a large college apartment complex.
- Created initial network design and installed all network gear. Consulted owners with options to help save costs.
- Pull building CAT 5e cabling. Punch 66 block and 110 patch panels to meet standards and exercise quality.
- Responsible for efforts to prevent typical p2p traffic, web content filtering, and other issues that effect performance.

ClearCore Manufacturing – Technician *Idaho Falls, ID* **September 2002 - September 2003**

- Member of a team developing PCB video processors and embedded multi purpose computer boards.
- Responsible for troubleshooting, repairing, and assembling. Newly developed designs meant studying schematics to learn methods of troubleshooting the different models and staying current with the team.
- Flashed firmware regularly supplied by the developers. Use of basic electricity fundamentals. Regular use of test tools such as multi-meters, oscilloscopes, UNIX terminals, and Quick Logic chip programing equipment.
- Skills in soldering small scale semi conductors and electronics using high quality solder equipment and microscopes.

Maiden Electronics – Technician *Ogden, UT* **November 2001 - August 2002**

- Repair Consumer Electronics. Examples include Televisions, DVD players, Microwave ovens, and Game consoles.
- Ability to read service manuals, schematics, and troubleshoot basic electricity concepts.
- Soldering skill for single layer PCB electronic boards. Careful ground isolation, temperatures, and solder type.
- Company was contracted with multiple organizations such as Ogden City Schools, Papa Johns Pizza, and other small to medium size office environments to provide support for PBX Phone systems. Experience in troubleshooting phone networks, 66 blocks, POTs, continuity checks, toning, and wiring complicated junctions.
- Experience with Nortel Norstar phone systems and dealing with multiple analog lines from the Telco D-Mark. Handling incoming call Roll Overs, Internal Transfers, and other Analog to Digital conversions.

References

References available upon request.